

I claim:

1. A shell device with a circuit unit comprising:
a shell having an inner surface; and
a circuit unit arranged on said inner surface of said shell.
- 5 2. The shell device with a circuit unit as claimed in claim 1, wherein said shell has an upper shell and a lower shell each having an inner surface, and said circuit unit has an upper circuit unit and a lower circuit unit are arranged on said inner surfaces of said upper shell and said lower shell, respectively.
3. The shell device with a circuit unit as claimed in claim 2, further comprising
10 an electric connection component, which is electrically connected said upper circuit unit and said lower circuit unit.
4. The shell device with a circuit unit as claimed in claim 3, wherein said electric connection component is a conductive foam.
5. The shell device with a circuit unit as claimed in claim 1, wherein said circuit
15 unit has a conducting layer, an insulating layer and an electrical connection layer, said conducting layer forms a plurality of wires, said insulating layer covers said wires, said insulating layer has a plurality of through holes, part of said wires are exposed by said through hole, and said electric connection layer is arranged between said wires on said insulating layer and is extended
20 into said through holes to connect electrically said wires.
6. The shell device with a circuit unit as claimed in claim 5, wherein said conducting layer has an exposed portion not covered by said insulating layer and said electric connection layer.
7. The shell device with a circuit unit as claimed in claim 6, further comprising
25 an electric connection component electrically connected to said exposed

portion of said conducting layer.

8. The shell device with a circuit unit as claimed in claim 6, further comprising electronic components electrically connected to said exposed portion of said conducting layer.

5 9. The shell device with a circuit unit as claimed in claim 1, wherein said circuit unit is adhered on said inner surface of said shell.

10. The shell device with a circuit unit as claimed in claim 1, wherein said circuit unit is printed on said inner surface of said shell.

11. A shell device with a circuit unit comprising:

10 a shell including an upper shell and a lower shell, each having an inner surface;

a circuit unit including an upper circuit unit and a lower circuit unit, said upper circuit unit and said lower circuit unit being arranged on said inner surfaces of said upper shell and said lower shell, respectively; and

15 an electric connection component electrically connected between said upper circuit unit and said lower circuit unit.

12. The shell device with a circuit unit as claimed in claim 11, wherein said electric connection component is a conductive foam.

13. The shell device with a circuit unit as claimed in claim 11, wherein said
20 circuit units have a conducting layer, an insulating layer and an electrical connection layer, said conducting layer forms a plurality of wires, said insulating layer covers said wires, said insulating layer has a plurality of through holes, part of said wires are exposed by said through hole, and said electric connection layer is arranged between said wires on said insulating
25 layer and is extended into said through holes to connect electrically said

wires.

14. The shell device with a circuit unit as claimed in claim 13, wherein said conducting layer has an exposed portion not covered by said insulating layer and said electric connection layer.

5 15. The shell device with a circuit unit as claimed in claim 14, further comprising an electric connection component electrically connected to said exposed portion of said conducting layer.

10 16. The shell device with a circuit unit as claimed in claim, 14 further comprising electronic components electrically connected to said exposed portion of said conducting layer.

17. The shell device with a circuit unit as claimed in claim 11, wherein said upper circuit unit and said lower circuit unit are adhered on said inner surfaces of said upper shell and said lower shell, respectively.

15 18. The shell device with a circuit unit as claimed in claim 11, wherein said upper circuit unit and said lower circuit unit are printed on said inner surfaces of said upper shell and said lower shell, respectively.